Autograpy

DERBY PUBLIC SCHOOLS

35 Fifth Street Derby, Connecticut 06418

(203) 736-5027 fax (203) 736-5031 www.derbyps.org

DERBY PUBLIC SCHOOLS Kitchen Hood and Makeup Air Unit (MAU) installation

Request for Proposal

The City of Derby Board Of Education (BOE) is accepting proposals for the installation of a Kitchen hood with Fire system and MAU.

The Project Director is: *David Nardone, Facilities Managers*. All requests for information must be coordinated with the project director 203-736-5027 Dnardone@derbyps.org.

Sealed proposals in duplicate for Kitchen hood with Fire system and MAU, in accordance with specifications to be distributed at www.derbyps.org/bids must be received in duplicate by the City of Derby BOE 35 Fifth Street, Derby, CT until 11am July 5, 2016

A Mandatory pre-bid conference will be held on Tuesday June 21, 2016 @ 9AM at Derby High School 8 Nutmeg Ave. Derby CT 06418

The City of Derby BOE reserves the right to reject any or all bids, to waive any defects in same, or to choose to make the sale other than strictly in accordance with price considerations, and/or to choose other than the highest bidder, if it be deemed in the best interest of the City of Derby. Under no circumstances will the City or Board of Education be responsible for the cost of preparing a bid or proposal.

Deliver sealed proposals in duplicate by 11am EDT on July 5, 2016 to:

City Of Derby Board Of Education Kitchen Hood 35 Fifth Street Derby, CT 06418

Description of work:

See attached Drawings and specifications. -Note <u>e</u>Equipment manufacture may be substituted with equal or greater than equipment, at the Project Directors desertion.

Provide all material, labor and equipment to perform the work described and make complete, safe, and functional systems. Bids shall be valid for 120 days.

General Specifications

- 1. Contractors shall conform to all applicable OSHA safety provisions associated within proposed scope of work. Contractor shall designate one individual as job foreman or project manager who will serve as primary point of contact to BOE on the jobsite.
- 2. Contractors shall provide all material, labor, tools and equipment required to perform the work described above and make complete, safe, and functional systems. This work shall include, but not be limited to, rigging, cutting, patching, and painting to match existing conditions unless otherwise noted. All wall/floor penetrations performed as part of this scope of work shall be sealed adequately to maintain fire ratings.
- 3. Contractors shall pay for all permits and inspections required by controlling authority.
- 4. All work shall be installed in accordance with state, local and national codes.
- 5. Contractors shall warrant his workmanship and materials for a period of one (1) year from the date of acceptance by owner. Manufacturer's warrantees shall be turned over to the Owner upon completion of the project.
- 6. All work shall be done by mechanics skilled in the particular trade involved, under responsible supervision. Materials and methods used shall conform to recognized best practices. Existing hardware and material must be properly disposed of.
- 7. Removale of existing hood, Electric and Fire wiring to be done by the Derby BOE.
- 8. Gas line to be installed by the Derby BOE.

Award process: Project will be awarded to the qualified contractor with a proven track record of successful installations, with the lowest overall cost, and most suitable for the Derby School system.

Schedule of Work: All work to be completed no later than August 26, 2016.

Project Sites:

Derby High School 8 Nutmeg Ave. Derby CT 06418

GENERAL REQUIREMENTS

Contractors are responsible to insure that all federal, state and local laws/codes are adhered to which apply to this particular work. Successful contractor shall insure the worksite is left in a safe and clean condition throughout the project. Contractors are required to obtain any necessary local permits (when applicable) and must insure that final inspections are completed as a requirement to submit invoicing. Only those contractors that are properly licensed in the State of Connecticut for this type work may bid on this project. Contract must obtain any and all local permits and inspections. Obtain any and all State permits and inspections. Work must be performed in a manner that does not interfere with school or student safety.

WARRANTY

Guarantee workmanship and material provided against defective manufacture or installation. Repair or replace defective workmanship and material appearing within period of one year after Completion. Transfer manufacture<u>r</u>'s warranty to the BOE.

Insurance Requirements: Successful bidder (Contractor) shall be capable of providing "Certificate of Insurance" in the amount of \$1,000,000. Certificate must name the City of Derby and the Derby BOE as the certificate holder. Failure to obtain or provide certificate will result in the award of contract to an alternate bidder. Certificate must be received by BOE representative within three (3) business days of bid award. The successful bidder may be required to furnish a Bond with Surety satisfactory to the Corporation Counsel for the faithful performance of the contract

Additional Requirements: No change orders will be issued for material shortages, underestimated labor or any other foreseeable problem.

BID SHEET Derby Public School Kitchen Hood and MAU Installation July 5, 2016 @ 11AM

Name and address of Company
I none gram hid
Lump sum bid
\$
Contact person:
The lump sum bid is provided to the Derby Board of Education, to provide complete th work as outlined in the "scope of work" and per attached specifications. It is understoo that this price includes all insurance requirements and the specified completio requirements set forth in the "scope of work"
Authorized Signature Date

Description of work:

Attached Drawings and specifications Note Equipment manufacture may be substituted with equal or greater than equipment, at the Project Directors desertion.

NOTE: SCOPE OF WORK FOLLOWS

Hood and fire system, Mau scope of work

HOOD

Captive-Aire Model No. VENTILATION PACKAGE Captive Aire provides the below described basis of design:

Hood #1 - Left

5424ND-2-PSP-F - 8 ' ft 0" Long Exhaust-Only Wall Canopy Hood with Front Perforated Supply Plenum with Built-in 3" Back Standoff

- 430 SS Where Exposed x1

- FILTER 20" tall x 16" wide Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 93% efficient at 9 microns, 72% efficient at 5 microns
- L55 Series E26 Canopy Light Fixture High Temp Assembly, Includes Clear Thermal and Shock Resistant Globe (L55 Fixture), Bulbs By Others
- EXHAUST RISER Factory installed 12" X 15" X 4" height
- SUPPLY RISER 12"x 24" Supply Riser with Volume Dampers x2
- 1/2 Pint Grease Cup New Style, Flanged Slotted x2
- BACKSPLASH 80.00" High X 198.00" Long 430 SS Vertical (Includes End Caps & Divider Bars) x1
- -Stainless steel trim to column is to include the following: $8" \times 80"$ flat backsplash and (2) $2" \times 2" \times 80"$ as one with inside corner and one with outside corner.
- Stainless trim for hood to column and for utility cabinet to the wall is to include:

(2) 2" x 2" x 24"

AND,

Hood #2 - Right

5424ND-2-PSP-F - 7' ft 6" Long Exhaust-Only Wall Canopy Hood with Front Perforated Supply Plenum with Built-in 3" Back Standoff

- 430 SS Where Exposed

- Utility Cabinet on the Right Side (Adds 12" to overall length.)
- FILTER 20" tall x 16" wide Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 93% efficient at 9 microns, 72% efficient at 5 microns
- L55 Series E26 Canopy Light Fixture High Temp Assembly, Includes Clear Thermal and Shock Resistant Globe (L55 Fixture), Bulbs By Others
- EXHAUST RISER Factory installed 12" X 14" X 4" height
- SUPPLY RISER 12"x 24" Supply Riser with Volume Dampers x2
- 1/2 Pint Grease Cup New Style, Flanged Slotted 3" Back Standoff
- 430 SS Where Exposed x1

- Utility Cabinet on the Right Side x1
- FILTER 20" tall x 16" wide Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture
- efficiency: 93% efficient at 9 microns, 72% efficient at 5 microns x7
- L55 Series E26 Canopy Light Fixture High Temp Assembly, Includes Clear Thermal and Shock Resistant Globe (L55 Fixture), Bulbs By Others x3
- EXHAUST RISER Factory installed 12" X 14" X 4" x1
- SUPPLY RISER 12"x 24" Supply Riser with Volume Dampers x2
- 1/2 Pint Grease Cup New Style, Flanged Slotted

CLOSURE TRIM Trim needed for back of hood -

This closure trim is no longer required as the hood commences to the right of the existing far left corner column.

FANS

Captive-Aire Model No. EXHAUST FAN

Fans #1 and #2 NCA14FA - Exhaust Fan (Right and Left Hood section Exhaust)

NCA14FA Belt Drive Centrifugal Upblast Exhaust Fan with 15.75" wheel Exhaust Fan handles 1900 CFM @ -0.800" wc ESP, Fan runs at 1122 RPM. Exhaust Motor: 1.000 HP, 3 Phase 208 V, 60Hz, 3.4 FLA, ODP (Open Drip Proof)

- Grease Cup for kitchen-duty centrifugal exhaust fans, Box Dimensions 17-1/8 L X 5-1/16 W X 3-3/4 H (18 GA.) (Includes Down Spout)
- HINGE KIT Standard Hinge kit for exhaust fan roof curbs. Includes Hardware to attach hinge to curb and hinge to base. Ships Loose. Used on Fans with wheels 20 inches or smaller. 12 GA Galvanized.
- Exhaust riser collar size is 12" x 4", with a 4" collar height. One per hood section.

Captive-Aire Model No. MUA FAN/UNIT

Ventilation system includes heated tempered makeup supply return

Fan #3 A2-D.250-G15 - Heater A2-D.250-G15 Direct Gas Fired Heated Make Up Air Unit with 15" Blower Supply Fan handles 2969 CFM @ 0.700" wc ESP, Fan runs at 852 RPM. Heater supplies 240489 BTUs. 75°F Temperature Rise. [Fuel: Natural Gas] Supply Motor: 2.000 HP, 3 Phase 208 V, 60Hz, 5.9 FLA, ODP (Open Drip Proof) Down Discharge - Air Flow

- Sloped Filtered Intake for Size #2 Modular Heater. 26.813" Wide X 53.625" Long X 31.313" High. Includes 2" MV EZ Kleen Metal Mesh Filters.
- RTC Solutions 4090° F Discharge Temp Control x1
- Gas Manifold for DF2 GM BTU 0 825001 7 in. w.c. 14 in. w.c., No Insurance Requirement (ANSI), BV250-88
- Cooling Interlock Relay. 24VAC Coil. 120V Contacts. Locks out burner circuit when AC is energized. x1
- Motorized Back Draft Damper 22.75" X 24" for Size 2 Standard & Modular Direct Fired Heaters w/Extended Shaft, Standard Galvanized Construction, 3/4" Rear Flange, LF120S Actuator included
- Low Fire Start. Allows the burner circuit to energize when the modulation control is in a low fire position. x1
- Gas Pressure Gauge, 0-35", 2.5" Diameter, 1/4" Thread Size x1
- Gas Pressure Gauge, -5 to +15 Inches Wc., 2.5" Diameter, 1/4" Thread Size

CONTROLS

Captive-Aire Model No. ELECTRICAL CONTROL SYSTEM Electrical System #1 SC-32111002 3 Phase w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire. x1

- 14x18 Stainless Steel Box. Includes latch and backplate x1
- Digital Prewire Lighting Relay Kit. Includes hood lighting relay & terminal blocks. Allows for up to 1400W of lighting each.

Electrical controls will be determined in the field as to their preferred location.

FACTORY SERVICES Captive Aire Service Design Verification is to include the following:

- Building surcharge (installation)
- Direct Fired Heater
- Two exhaust fans
- Electrical controls standard
- Mileage

This proposal is for a new automatic fire suppression system(s). Hood ducts, plenum and cooking appliances to be protected are as follows: 15'-6" hood over a tilting skillet, a 24" griddle, a 36" 6-burner range, a steamer and (1) oven — R-102-6 gal Standard System Specification - includes all necessary agent cylinders, mounting hardware, controls, fusible link detection line, (1) SURFACE MOUNTED ONLY pull station, all system piping and nozzles with UL listed seals at exterior hood penetrations, up to (3) micro-switches for use by the electrical/fire alarm trades, a mechanical gas valve up to 2" in size for installation by the plumbing trade, diagrams, local permit and (1) test for the Fire Marshal. All labor at open shop wage rates during normal working hours, M-F, 8pm-4pm. Modifications that change the Standard System Specification must be included in the box below to be in force for this proposal.

Proposal based on the hood having an end cabinet to house the system.

- Electrical Work Exclusion - Electrician's fees and additional equipment needed beyond the microswitches to tie in the following code required functions are not included in this proposal: 1) All live electric under the hood must shut down on system operation. 2) Any forced make-up (fresh) air fan must shut down on system operation (exhaust fans typically remain running). 3) If a building fire alarm system exists, operation of the fire system must sound the alarm. 4) If the system utilizes an electric gas valve, the gas valve must close on system operation and the gas valve circuit must have a manual reset relay installed to prevent automatic valve reopening following a power loss.

Exclusions include:

- All Electrical work power and control
- Gas valve installation (Valve is furnished, others install.)
- Gas piping

1 ea CHROME DROPS

Scope of work is to include chrome plated appliance nozzle piping drops through individual vertical penetrations. This covers all black pipe under the hood.

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SPECIFICATION: CAPTRATE GREASE-STOP SOLD FILTER

THE CAPTRATE GREASE-STOP SOLD FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TYD

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 90% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, VITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED LO INCHES OF VATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05.

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CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH.
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NES STANDARD #2
UL STANDARD #1046
NT. MECH. CODE CIMC)



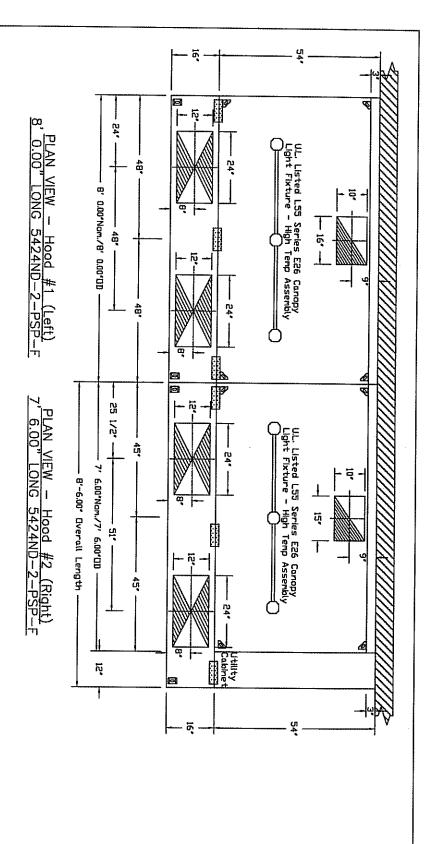








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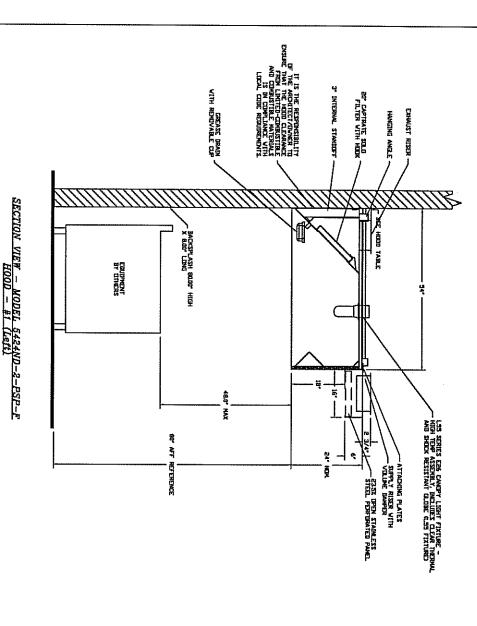






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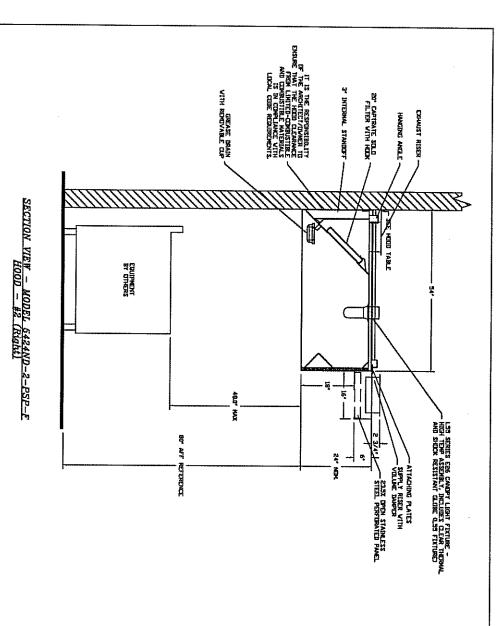
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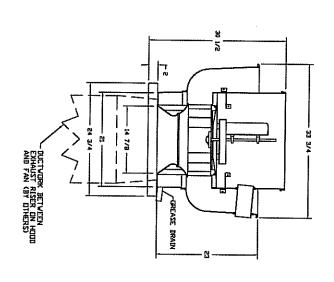
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SCALE 3/8' = 1'-0"	BY SAC	2625591		

FAN #3 A2-D:250-GI5 - HEATER
L DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15' BLOWER
2. INTAKE HODD WITH EZ FILTERS
2. INTAKE HODD WITH EZ FILTERS
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
4. COULING INTERLOCK RELAY. 24VAC COIL, 120V CONTACTS, LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
5. MOTURIZED BACK DRAFT DAMPER 22.75' X 24' FUR SIZE 2 STANDARD & MODULAR DIRECT FIRED HEATERS V/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 374' REAR FLANGE, LF120S ACTUATOR INCLUDED
6. LOW FIRE START. ALLOYS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
7. GAS PRESSURE GAUGE, 0-35', 2.5' DIAMETER, 1/4' THREAD SIZE
8. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5' DIAMETER, 1/4' THREAD SIZE

BLOVER DISCHARGE

WINTER TEMPERATURE = 0°F. TEMP. RISE = 75°F.
BTUS CALCULATED DFF STANDARD AIR DENSITY
OUTPUT BTUS AT ALTITUDE DF 0.0 Ft. = 228420
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SUPPLY SIDE HEATER INFORMATION





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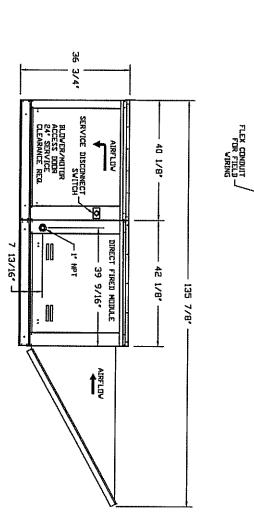
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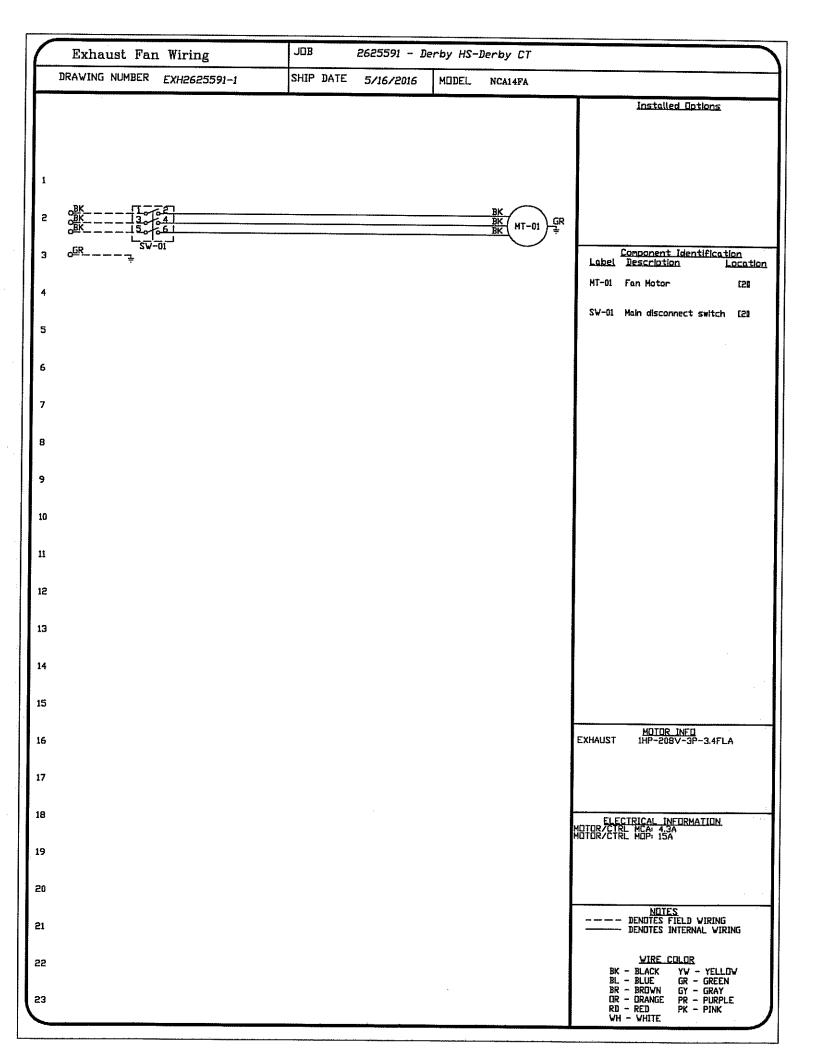
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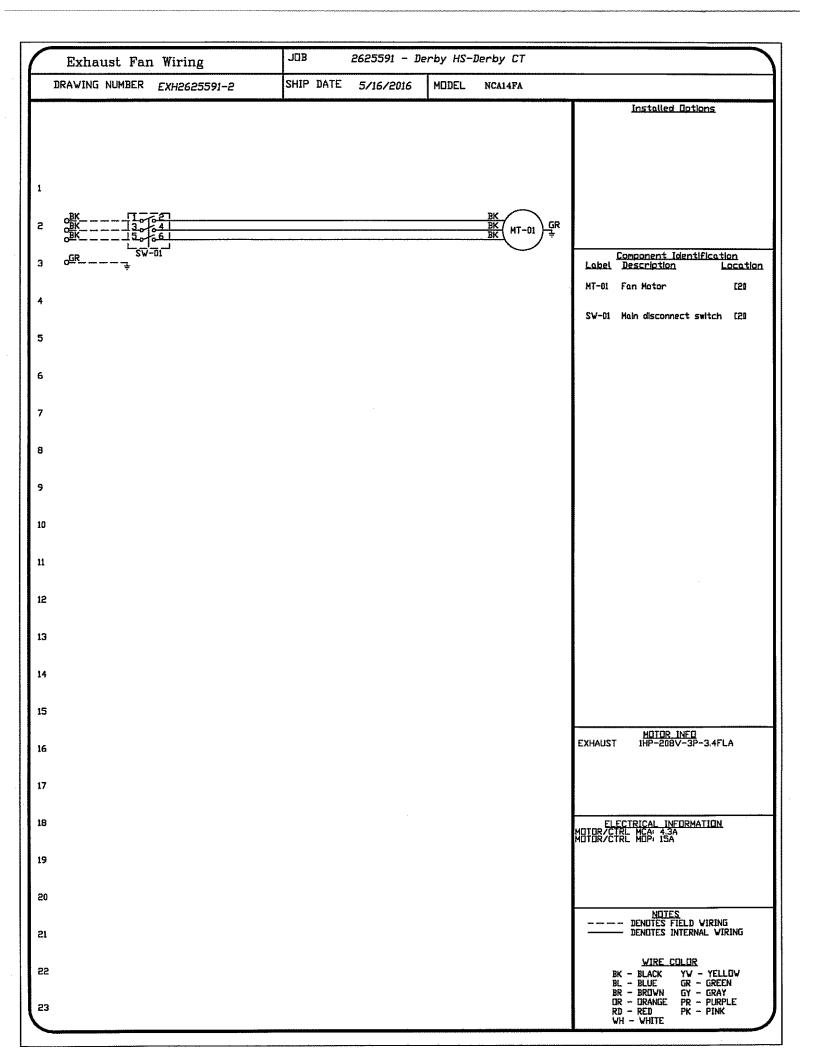


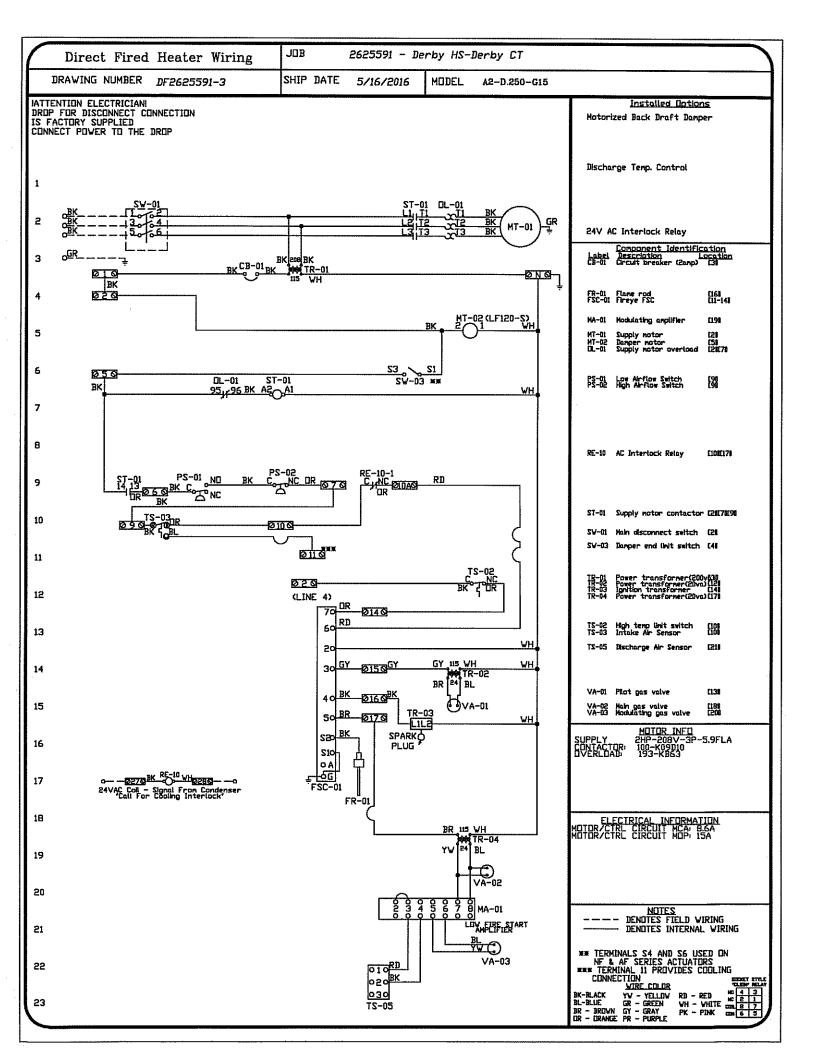


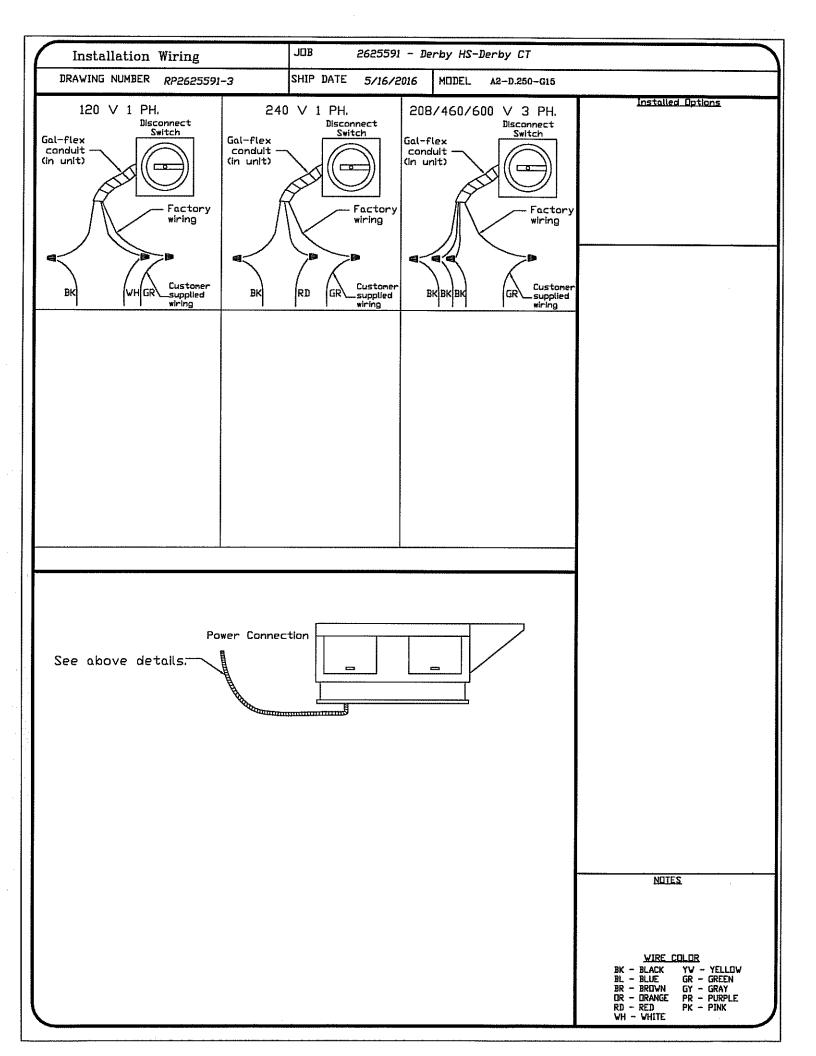


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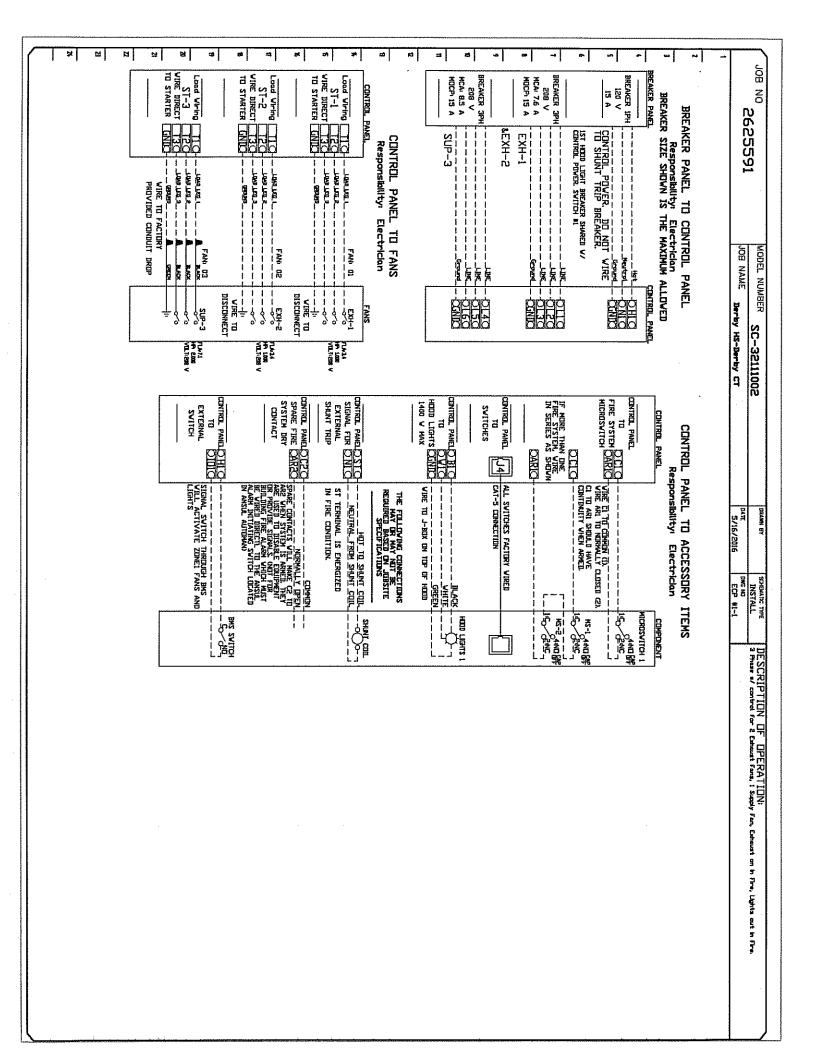
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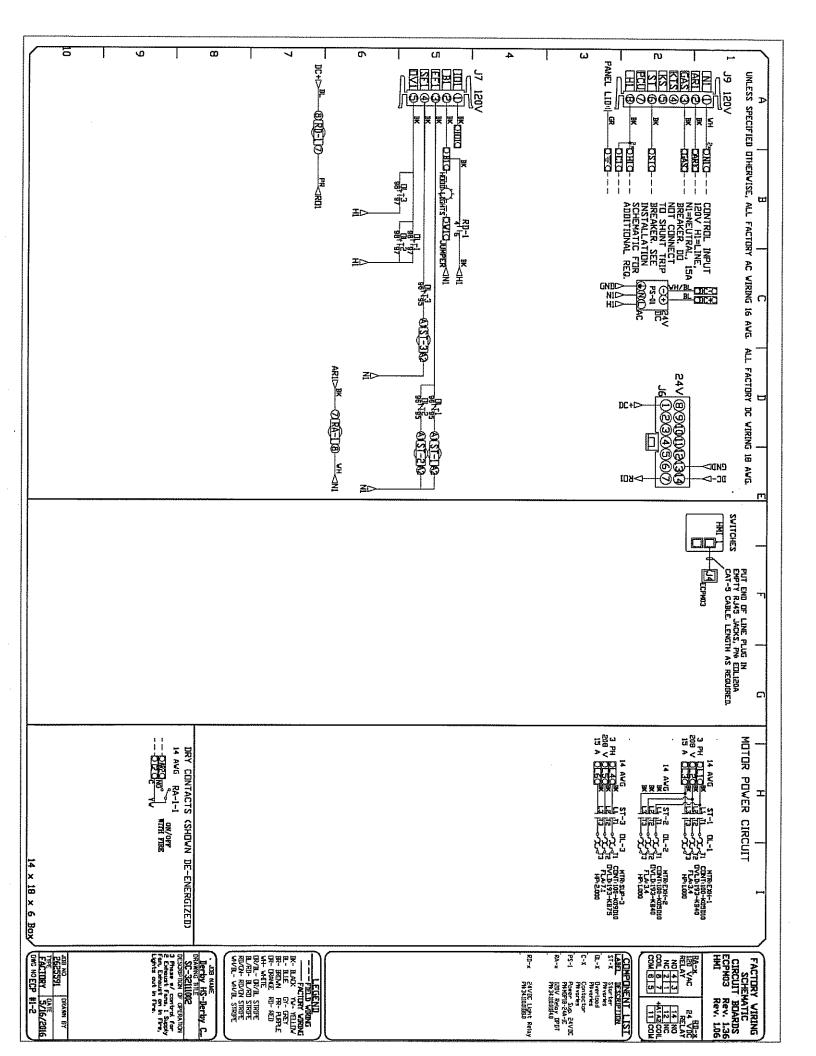






7, 06418 2625591 DRAWN BYSAC SCALE 3/8' = 1'-0'





System Design Verification (SDV)

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual, Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades an site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.







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REV.	DWG # 14	DATE 5/16/2016	LOCATION DERBY, CT, 06418	JOB Derby HS-Derby CT
SCALE	DRAWN BYSAC	JOB #	6418	7
SCALE 3/8' = 1'-	BYSAC	262559		